

## Patent Abstracts of Japan

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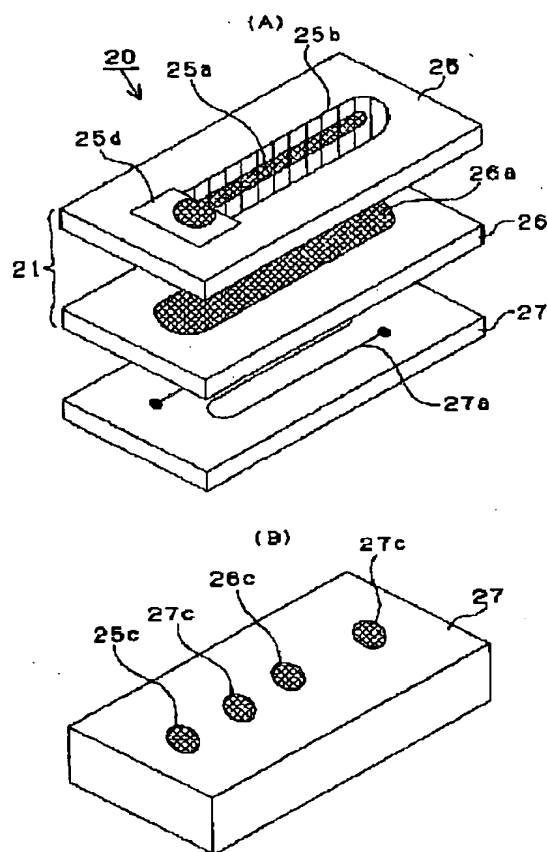
APPLICATION DATE : 04-11-97  
 APPLICATION NUMBER : 09318987

APPLICANT : NGK SPARK PLUG CO LTD;

INVENTOR : WAKITA YUKIO;

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TITLE : OZONIZER AND WATER  
 PURIFICATION EQUIPMENT AND  
 METHOD FOR CLEANING THE SAME  
 OZONIZER AND EQUIPMENT



ABSTRACT : PROBLEM TO BE SOLVED: To provide an ozonizer capable of removing ammonium nitrate deposited on the discharge surface of a discharge body without requiring any additional manpower and without bringing any removal means into direct contact with the ammonium nitrate.

SOLUTION: In this ozonizer, an ozone generation element 20 is formed by laminating a discharge body 21 that consists of a first dielectric layer 25 provided with a linear discharge electrode 25a and a second dielectric layer 26 provided with a planar induction electrode 26a, to a third dielectric layer 27 provided with a heater electrode 27a. By generating heat from the heater electrode 27a for about 10 sec, the discharge body 21 can be heated to 250 to 350°C to scatter and remove ammonium nitrate molecules deposited on the discharge body 21, from the body 21.

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